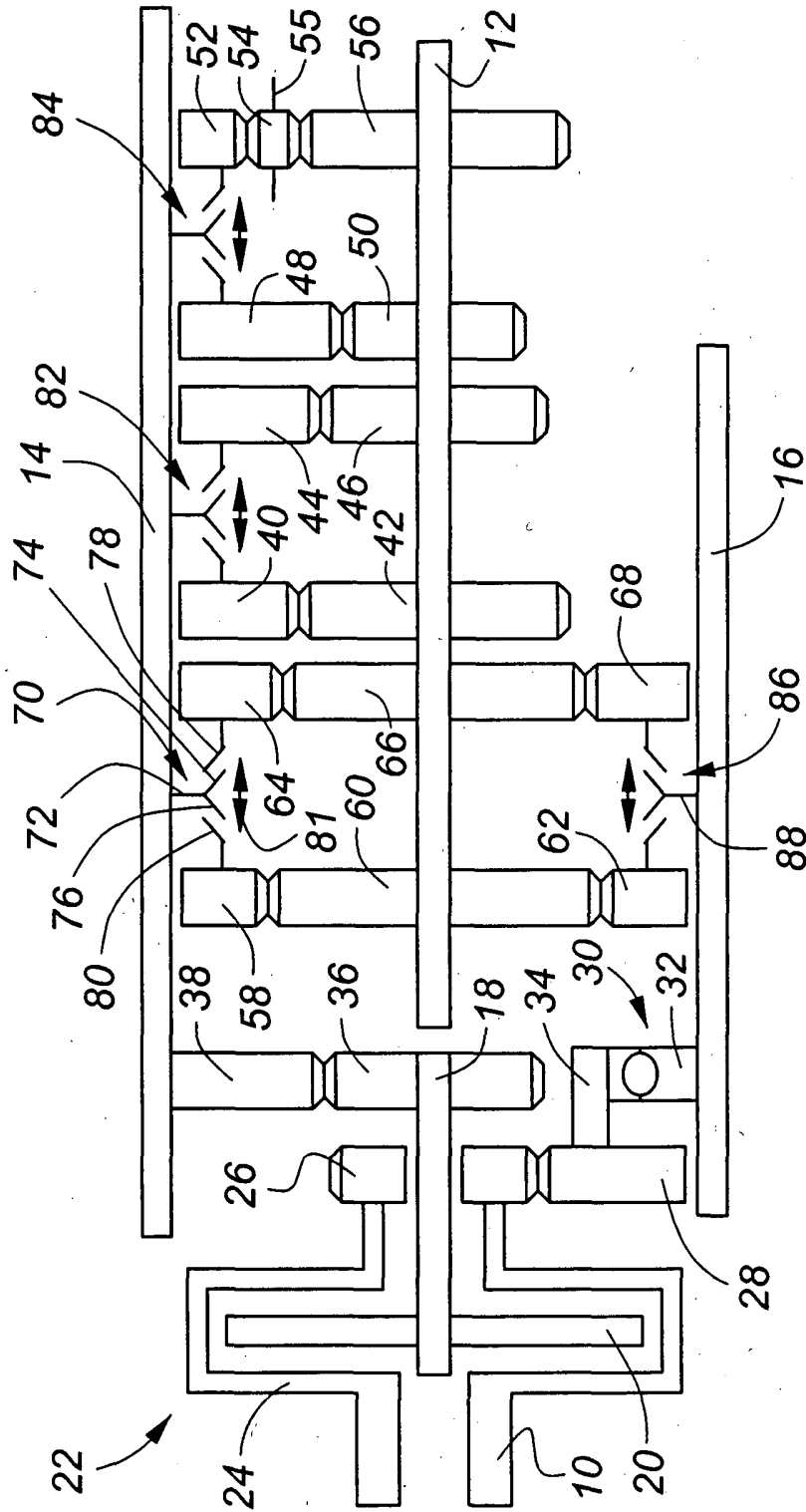


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Figure 1



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Figure 5

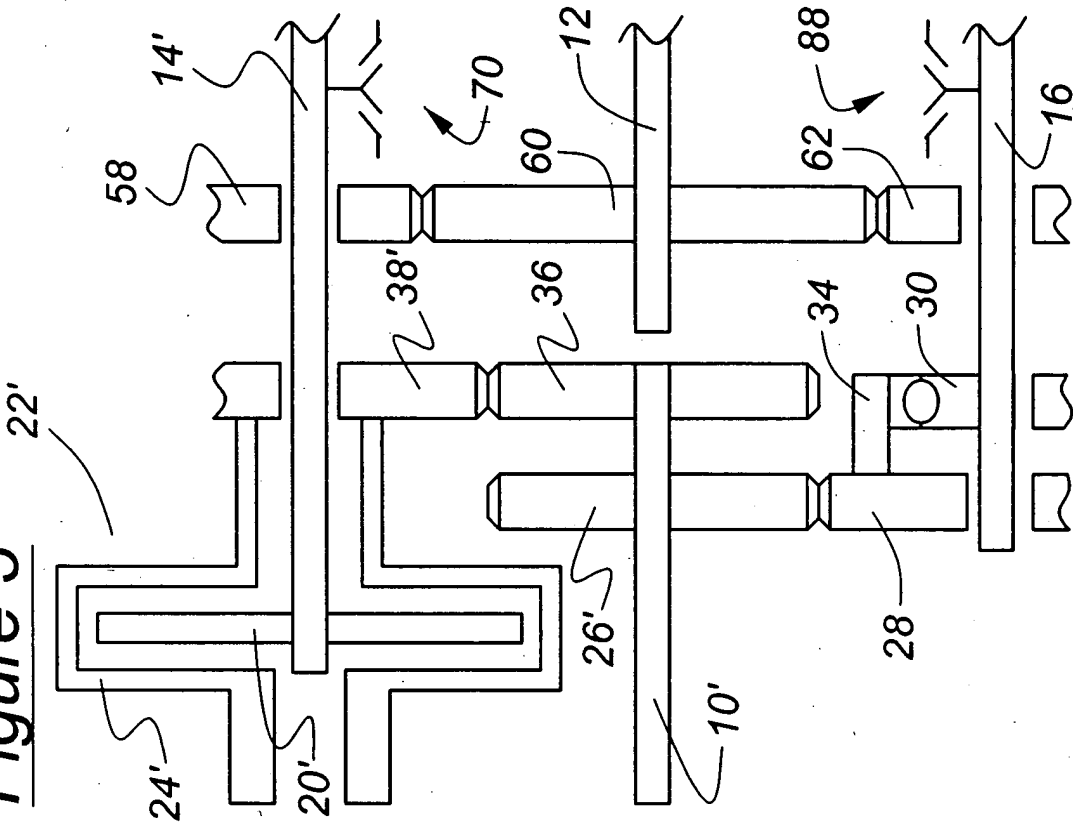


Figure 2

Pinion/ Gear	Number of Teeth
60	43
66	35
42	29
46	25
50	23
56	43
58, 62	19
64, 68	27
40	33
44	37
48	41
54	19
52	19
38, 38'	38
36	27
26, 26'	26
28	37

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Figure 3

	Clutch / Coupler States					
	70	82	84	86	22	30
Ready for forward launch	Left	Neutral	Neutral	Neutral	Off	-
Completion of forward launch	Left	Neutral	Neutral	Neutral	Applied	-
1->2 shift, step 1	Left	Neutral	Neutral	Left	Applied	O/R
1->2 shift, step 2	Left	Neutral	Neutral	Left	Off	X
1->2 shift, step 3	Right	Neutral	Neutral	Left	Off	X
1->2 shift, step 4	Right	Neutral	Neutral	Left	Applied	O/R
1->2 shift, complete	Right	Neutral	Neutral	Neutral	Applied	-
2->3 shift, step 1	Right	Neutral	Neutral	Right	Applied	O/R
2->3 shift, step 2	Right	Neutral	Neutral	Right	Off	X
2->3 shift, step 3	Neutral	Left	Neutral	Right	Off	X
2->3 shift, step 4	Neutral	Left	Neutral	Right	Applied	O/R
2->3 shift, complete	Neutral	Left	Neutral	Neutral	Applied	-

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Figure 3 cont.

	Clutch / Coupler States					
	70	82	84	86	22	30
3->4 shift, step 1	Neutral	Left	Neutral	Neutral	Off	-
3->4 shift, step 2	Neutral	Right	Neutral	Neutral	Off	-
3->4 shift, complete	Neutral	Right	Neutral	Neutral	Applied	-
4->5 shift, step 1	Neutral	Right	Neutral	Neutral	Off	-
4->5 shift, step 2	Neutral	Neutral	Left	Neutral	Off	-
4->5 shift, complete	Neutral	Neutral	Left	Neutral	Applied	-
Ready for reverse launch	Neutral	Neutral	Right	Neutral	Off	-
Completion of reverse launch	Neutral	Neutral	Right	Neutral	Applied	-

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	Speeds				Torque Ratio
	Primary	Secondary	Clutch	Output	
Ready for forward launch	0.000	-	1.000	0.000	0.000
Completion of forward launch	0.711	-	0.000	0.314	3.185
1->2 shift, step 1	0.711	0.711	0.000	0.314	3.185
1->2 shift, step 2	0.703	0.703	0.011	0.310	3.221
1->2 shift, step 3	0.402	0.703	0.434	0.310	3.221
1->2 shift, step 4	0.711	1.240	0.000	0.548	1.824
1->2 shift, complete	0.711	-	0.000	0.548	1.824
2->3 shift, step 1	0.711	0.711	0.000	0.548	1.824
2->3 shift, step 2	0.703	0.703	0.011	0.542	1.845
2->3 shift, step 3	0.476	0.703	0.330	0.542	1.845
2->3 shift, step 4	0.711	1.830	0.000	0.809	1.237
2->3 shift, complete	0.711	-	0.000	0.809	1.237

Figure 4

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	Speeds				Torque Ratio
	Primary	Secondary	Clutch	Output	
3->4 shift, step 1	0.711	-	0.000	0.809	0.000
3->4 shift, step 2	0.546	-	0.231	0.809	0.000
3->4 shift, complete	0.711	-	0.000	1.052	0.951
4->5 shift, step 1	0.711	-	0.000	1.052	0.000
4->5 shift, step 2	0.590	-	0.170	1.052	0.000
4->5 shift, complete	0.711	-	0.000	1.267	0.790
Ready for reverse launch	0.000	-	1.000	0.000	0.000
Completion of reverse launch	0.711	-	0.000	-0.314	-3.185

Figure 4 cont.